

September 23, 2004

James T. Jensen, Vice President  
Savage Services Corporation  
6340 South 3000 East, Suite 600  
Salt Lake City, Utah 84121

Re: Conditional Approval of Combining of Existing Culverts, Savage Services Corporation, Savage Loadout, C/007/0022, Task ID #2034, Outgoing File

Dear Mr. Jensen:

The above-referenced amendment is conditionally approved upon receipt of three clean copies prepared for incorporation. Please submit these copies by October 8, 2004. Once we receive these copies, final approval will be granted, at which time you may proceed with your plans.

A stamped incorporated copy of the approved plans will also be returned to Dan Guy at that time, for insertion into your copy of the Mining and Reclamation Plan. A copy of our Technical Analysis is enclosed.

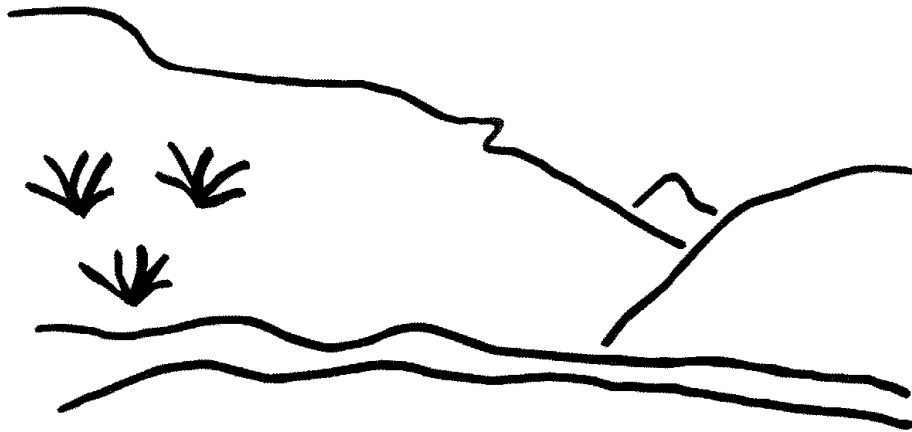
If you have any questions, please feel free to call me at (801) 538-5286 or Stephen J. Demczak at (435) 613-1146 ext. 202.

Sincerely,

D. Wayne Hedberg  
Permit Supervisor

SJD/sd  
Enclosure  
cc: Dan Guy, Blackhawk  
Boyd Rhodes, Savage w/o  
Price Field Office  
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# State of Utah



## Utah Oil Gas and Mining

### Coal Regulatory Program

Savage Loadout  
Combining of Existing Culverts  
C/007/022  
Task ID #2034  
Technical Analysis  
September 15, 2004



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**TECHNICAL ANALYSIS**

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## **TECHNICAL ANALYSIS**

The Division regulates the Surface Mining Control and Reclamation Act of 1977 (SMCRA). When mines submit a Permit Application Package or an amendment to their Mining and Reclamation Plan, the Division reviews the proposal for conformance to the R645-Coal Mining Rules. This Technical Analysis is such a review. Regardless of these analyses, the permittee must comply with the minimum regulatory requirements as established by SMCRA.

Readers of this document must be aware that the regulatory requirements are included by reference. A complete and current copy of these regulations and a copy of the Technical Analysis and Findings Review Guide can be found at <http://ogm.utah.gov/coal>

This Technical Analysis (TA) is written as part of the permit review process. It documents the Findings that the Division has made to date regarding the application for a permit and is the basis for permitting decisions with regard to the application. The TA is broken down into logical section headings which comprise the necessary components of an application. Each section is analyzed and specific findings are then provided which indicate whether or not the application is in compliance with the requirements.

Often the first technical review of an application finds that the application contains some deficiencies. The deficiencies are discussed in the body of the TA and are identified by a regulatory reference which describes the minimum requirements. In this Technical Analysis we have summarized the deficiencies at the beginning of the document to aid in responding to them. Once all of the deficiencies have been adequately addressed, the TA will be considered final for the permitting action.

It may be that not every topic or regulatory requirement is discussed in this version of the TA. Generally only those sections are analyzed that pertain to a particular permitting action. TA's may have been completed previously and the revised information has not altered the original findings. Those sections that are not discussed in this document are generally considered to be in compliance.

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## **TECHNICAL ANALYSIS**

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## **INTRODUCTION**

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## **INTRODUCTION**

The permittee has submitted an amendment for the connecting of two culverts. The two culverts were installed underground to access the parking lot. At the present time, there is a diversion ditch that connects the two culverts. The diversion ditch is located next the parking lot and vehicles are being backed into the diversion ditch and getting stuck. The permittee wishes to eliminate this problem.



## INTRODUCTION

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## OPERATION PLAN

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# OPERATION PLAN

## HYDROLOGIC INFORMATION

Regulatory Reference: 30 CFR Sec. 773.17, 774.13, 784.14, 784.16, 784.29, 817.41, 817.42, 817.43, 817.45, 817.49, 817.56, 817.57; R645-300-140, -300-141, -300-142, -300-143, -300-144, -300-145, -300-146, -300-147, -300-148, -301-512, -301-514, -301-521, -301-531, -301-532, -301-533, -301-536, -301-542, -301-720, -301-731, -301-732, -301-733, -301-742, -301-743, -301-750, -301-761, -301-764.

### Analysis:

#### **Diversions: General**

The permittee has submitted an amendment to connect two underground culverts. The current plan has a diversion connecting the culverts. The diversion is next to the parking lot and vehicles are backing into the diversion and getting stuck. The two culverts are crossovers to access the parking lot and office building.

This change will eliminate about 100 feet of diversion ditch. This request will not change any hydrologic controls. The runoff from the parking lot will still go into the existing ditch below culvert C-13.

The permittee has updated the design calculations using Manning's Equation. This design is P.E. certified. The permittee will install an 18-inch connecting culvert to the existing 18-inch culverts that are located at each end.

### Findings:

The permittee has met the minimum requirements of this section.

## MAPS, PLANS, AND CROSS SECTIONS OF MINING OPERATIONS

Regulatory Reference: 30 CFR Sec. 784.23; R645-301-512, -301-521, -301-542, -301-632, -301-731, -302-323.

**Analysis:**

**Mining Facilities Maps**

The permittee has updated the Facilities Map 3-2 showing the location and the connecting of the two culverts. This map is P.E. certified.

**Certification Requirements**

The permittee has P.E. certified design calculations and facilities map.

**Findings:**

The permittee has met the minimum requirements of this section.

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## RECLAMATION PLAN

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# RECLAMATION PLAN

## BONDING AND INSURANCE REQUIREMENTS

Regulatory Reference: 30 CFR Sec. 800; R645-301-800, et seq.

### Analysis:

#### Determination of Bond Amount

The installation of 100 feet of culvert would have an insignificant change to the bonding amount. The permittee is currently over bonded; therefore, no bonding adjustment will be required.

### Findings:

The permittee has met the minimum requirements of this section.

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